

CLAIMS:

1. A functional system comprising a set of functions (F) requiring access to a collective resource (RSRC), the system comprising an interface (INT) adapted to implement an access scheme (AS) characterized by a plurality of states (S) passed through in a predetermined manner, a state (S) forming a possibility of access of a given length and
5 defining an order of priority in accordance with which a function (F) can access the collective resource (RSRC).

2. A functional system as claimed in Claim 1, characterized in that there is at least one state (S) which defines an order of priority (PS) for a sub-set of functions (SUB)
10 only.

3. A functional system as claimed in Claim 2, characterized in that the interface is adapted to jump to the next state in the case that no function included in the sub-set of functions (SUB) has a pending request.
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4. A method of managing a functional system comprising a set of functions (F) and a collective resource (RSRC) to which the functions (F) require access, characterized in that the method comprises the following step:

- passing through a plurality of states (S) in a predetermined manner, a state (S) forming a possibility of access of a given length and defining an order of priority (PS) in
20 accordance with which a function (F) can access the collective resource (RSRC).

5. A data processing system comprising a set of processors (P) requiring access to a collective memory (MEM), the data processing system comprising a memory interface
25 (INT) adapted to implement an access scheme (AS) characterized by a plurality of states (S) passed through in a predetermined manner, a state (S) forming a possibility of access of a given length and defining an order of priority (PS) in accordance with which a processor (P) can access the collective memory (MEM).

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Time	Location	Activity	Notes
10:00	Field	Collecting	Sample 1
10:30	Field	Collecting	Sample 2
11:00	Field	Collecting	Sample 3
11:30	Field	Collecting	Sample 4
12:00	Field	Collecting	Sample 5
12:30	Field	Collecting	Sample 6
13:00	Field	Collecting	Sample 7
13:30	Field	Collecting	Sample 8
14:00	Field	Collecting	Sample 9
14:30	Field	Collecting	Sample 10
15:00	Field	Collecting	Sample 11
15:30	Field	Collecting	Sample 12
16:00	Field	Collecting	Sample 13
16:30	Field	Collecting	Sample 14
17:00	Field	Collecting	Sample 15
17:30	Field	Collecting	Sample 16
18:00	Field	Collecting	Sample 17
18:30	Field	Collecting	Sample 18
19:00	Field	Collecting	Sample 19
19:30	Field	Collecting	Sample 20
20:00	Field	Collecting	Sample 21
20:30	Field	Collecting	Sample 22
21:00	Field	Collecting	Sample 23
21:30	Field	Collecting	Sample 24
22:00	Field	Collecting	Sample 25
22:30	Field	Collecting	Sample 26
23:00	Field	Collecting	Sample 27
23:30	Field	Collecting	Sample 28
00:00	Field	Collecting	Sample 29
00:30	Field	Collecting	Sample 30
01:00	Field	Collecting	Sample 31
01:30	Field	Collecting	Sample 32
02:00	Field	Collecting	Sample 33
02:30	Field	Collecting	Sample 34
03:00	Field	Collecting	Sample 35
03:30	Field	Collecting	Sample 36
04:00	Field	Collecting	Sample 37
04:30	Field	Collecting	Sample 38
05:00	Field	Collecting	Sample 39
05:30	Field	Collecting	Sample 40
06:00	Field	Collecting	Sample 41
06:30	Field	Collecting	Sample 42
07:00	Field	Collecting	Sample 43
07:30	Field	Collecting	Sample 44
08:00	Field	Collecting	Sample 45
08:30	Field	Collecting	Sample 46
09:00	Field	Collecting	Sample 47
09:30	Field	Collecting	Sample 48
10:00	Field	Collecting	Sample 49
10:30	Field	Collecting	Sample 50